

AMENDMENTS TO THE CLAIMS

1-6. (cancelled)

7. (currently amended) A method for evaluating an eye images recorded with a fundus camera, comprising the steps of:

determining deviations from the contextual information (a) of a stored comparison image and/or (b) of a standard image created by evaluating a plurality of comparison images of a similar pathology, and/or

carrying out a similarity analysis from the contextual information (a) of a stored comparison image and/or (b) of a standard image created by evaluating a plurality of comparison images of a similar pathology; and

creating a new images that ~~are is~~ stored for purposes of comparison at a later time;
wherein the stored comparison image is chosen from a database of images, the database of images comprising images of other eyes and images of the same eye;

wherein the contextual information is drawn from the settings of the fundus camera, manual annotations associated with the recorded fundus images, patient-specific information, and image contents.

8. (previously presented) The method according to claim 7, wherein the evaluation is carried out by averaging extracted features.

9. (previously presented) The method according to claim 7, wherein deviations are determined and/or the similarity analysis is carried out on the basis of a gray-value analysis and/or an analysis of color histograms and/or a structure analysis.

10. (previously presented) The method according to claim 7, wherein an extraction of vascular tree parameters is carried out.

11. (currently amended) A system for the evaluation of images recorded with a fundus camera, comprising:

a fundus camera for recording the ocular fundus;

an image storage for storing recorded fundus images;

means for evaluating the recorded fundus images of a similar pathology further comprising means for analyzing the images according to the same or similar contextual information, for gray-value analysis and/or means for preparing color histograms and/or means for structure analysis; and

a comparison unit connected to the image storage;

wherein the comparison unit can compare images to at least one image from a database of images, the database of images comprising images of other eyes and images of the same eye;

wherein the contextual information is drawn from the settings of the fundus camera, manual annotations associated with the recorded fundus images, patient-specific information; and image contents; and

wherein the comparison unit compares images recording in the image storage and creates new images of a similar pathology.

12. (currently amended) The system according to claim 11, the comparison unit further comprising:

a means for determining deviations (a) from a stored comparison image and/or (b) from a standard image created by evaluating a plurality of comparison images, and/or

a means for carrying out a similarity analysis (a) by a stored comparison image and/or (b) by a standard image created by evaluating a plurality of comparison images.

13. (cancelled)